

# STN Columbus

\* \* \* \* \* Welcome to STN International \* \* \* \* \*

NEWS 1 Web Page URLs for STN Seminar Schedule - N. America  
 NEWS 2 "Ask CAS" for self-help around the clock  
 NEWS 3 FEB 25 CA/CAPLUS - Russian Agency for Patents and Trademarks  
 (ROSPATENT) added to list of core patent offices covered  
 NEWS 4 FEB 28 PATDPAFULL - New display fields provide for legal status  
 data from INPADOC  
 NEWS 5 FEB 28 BABS - Current-awareness alerts (SDIs) available  
 NEWS 6 FEB 28 MEDLINE/LMEDLINE reloaded  
 NEWS 7 MAR 02 GBFULL: New full-text patent database on STN  
 NEWS 8 MAR 03 REGISTRY/ZREGISTRY - Sequence annotations enhanced  
 NEWS 9 MAR 03 MEDLINE file segment of TOXCENTER reloaded  
 NEWS 10 MAR 22 KOREAPAT now updated monthly; patent information enhanced  
 NEWS 11 MAR 22 Original IDE display format returns to REGISTRY/ZREGISTRY  
 NEWS 12 MAR 22 PATDPASPC - New patent database available  
 NEWS 13 MAR 22 REGISTRY/ZREGISTRY enhanced with experimental property tags  
 NEWS 14 APR 04 EPFULL enhanced with additional patent information and new  
 fields  
 NEWS 15 APR 04 EMBASE - Database reloaded and enhanced  
 NEWS 16 APR 18 New CAS Information Use Policies available online  
 NEWS 17 APR 25 Patent searching, including current-awareness alerts (SDIs),  
 based on application date in CA/CAPLUS and USPATFULL/USPAT2  
 may be affected by a change in filing date for U.S.  
 applications.  
 NEWS 18 APR 28 Improved searching of U.S. Patent Classifications for  
 U.S. patent records in CA/CAPLUS  
 NEWS EXPRESS JANUARY 10 CURRENT WINDOWS VERSION IS V7.01a, CURRENT  
 MACINTOSH VERSION IS V6.0c(ENG) AND V6.0Jc(JP),  
 AND CURRENT DISCOVER FILE IS DATED 10 JANUARY 2005  
 NEWS HOURS STN Operating Hours Plus Help Desk Availability  
 NEWS INTER General Internet Information  
 NEWS LOGIN Welcome Banner and News Items  
 NEWS PHONE Direct Dial and Telecommunication Network Access to STN  
 NEWS WWW CAS World Wide Web Site (general information)

Enter NEWS followed by the item number or name to see news on that  
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\* \* \* \* \* STN Columbus \* \* \* \* \*

FILE 'HOME' ENTERED AT 07:46:03 ON 16 MAY 2005

=> fil reg

COST IN U.S. DOLLARS	SINCE FILE	TOTAL
	ENTRY	SESSION
FULL ESTIMATED COST	0.21	0.21

FILE 'REGISTRY' ENTERED AT 07:46:09 ON 16 MAY 2005

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STRUCTURE FILE UPDATES: 15 MAY 2005 HIGHEST RN 850445-20-4

DICTIONARY FILE UPDATES: 15 MAY 2005 HIGHEST RN 850445-20-4

New CAS Information Use Policies, enter HELP USAGETERMS for details.

TSCA INFORMATION NOW CURRENT THROUGH JANUARY 18, 2005

Please note that search-term pricing does apply when conducting SmartSELECT searches.

```
*****
*
* The CA roles and document type information have been removed from *
* the IDE default display format and the ED field has been added, *
* effective March 20, 2005. A new display format, IDERL, is now *
* available and contains the CA role and document type information. *
*
*****
```

Crossover limits have been increased. See HELP CROSSOVER for details.

Experimental and calculated property data are now available. For more information enter HELP PROP at an arrow prompt in the file or refer to the file summary sheet on the web at:  
<http://www.cas.org/ONLINE/DBSS/registryss.html>

=>

L1 SCREEN CREATED

=>

L2 STRUCTURE UPLOADED

=>

L3 QUE L2 AND L1

=> s sam l3

SAMPLE SEARCH INITIATED 07:46:44 FILE 'REGISTRY'

SAMPLE SCREEN SEARCH COMPLETED - 1586 TO ITERATE

63.1% PROCESSED 1000 ITERATIONS

0 ANSWERS

INCOMPLETE SEARCH (SYSTEM LIMIT EXCEEDED)

SEARCH TIME: 00.00.01

FULL FILE PROJECTIONS: ONLINE \*\*COMPLETE\*\*

BATCH \*\*COMPLETE\*\*

PROJECTED ITERATIONS: 29331 TO 34109

PROJECTED ANSWERS: 0 TO 0

L4 0 SEA SSS SAM L2 AND L1

=> fil stnguide

COST IN U.S. DOLLARS

SINCE FILE

TOTAL

ENTRY

SESSION

FULL ESTIMATED COST

3.01

3.22

FILE 'STNGUIDE' ENTERED AT 07:50:26 ON 16 MAY 2005

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# STN Columbus

COPYRIGHT (C) 2005 AMERICAN CHEMICAL SOCIETY, JAPAN SCIENCE  
AND TECHNOLOGY CORPORATION, AND FACHINFORMATIONSZENTRUM KARLSRUHE

FILE CONTAINS CURRENT INFORMATION.  
LAST RELOADED: May 13, 2005 (20050513/UP).

```
=> fil reg
COST IN U.S. DOLLARS          SINCE FILE      TOTAL
                               ENTRY      SESSION
FULL ESTIMATED COST          0.24      3.46
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FILE 'REGISTRY' ENTERED AT 07:52:59 ON 16 MAY 2005  
USE IS SUBJECT TO THE TERMS OF YOUR STN CUSTOMER AGREEMENT.  
PLEASE SEE "HELP USAGETERMS" FOR DETAILS.  
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Property values tagged with IC are from the ZIC/VINITI data file  
provided by InfoChem.

STRUCTURE FILE UPDATES: 15 MAY 2005 HIGHEST RN 850445-20-4  
DICTIONARY FILE UPDATES: 15 MAY 2005 HIGHEST RN 850445-20-4

New CAS Information Use Policies, enter HELP USAGETERMS for details.

TSCA INFORMATION NOW CURRENT THROUGH JANUARY 18, 2005

Please note that search-term pricing does apply when  
conducting SmartSELECT searches.

```
*****
*
* The CA roles and document type information have been removed from *
* the IDE default display format and the ED field has been added,   *
* effective March 20, 2005. A new display format, IDERL, is now      *
* available and contains the CA role and document type information. *
*
*****
```

Crossover limits have been increased. See HELP CROSSOVER for details.

Experimental and calculated property data are now available. For more  
information enter HELP PROP at an arrow prompt in the file or refer  
to the file summary sheet on the web at:  
<http://www.cas.org/ONLINE/DBSS/registryss.html>

```
=> log h
COST IN U.S. DOLLARS          SINCE FILE      TOTAL
                               ENTRY      SESSION
FULL ESTIMATED COST          0.86      4.32
```

SESSION WILL BE HELD FOR 60 MINUTES  
STN INTERNATIONAL SESSION SUSPENDED AT 07:54:06 ON 16 MAY 2005

\* \* \* \* \* RECONNECTED TO STN INTERNATIONAL \* \* \* \* \*  
SESSION RESUMED IN FILE 'REGISTRY' AT 07:56:18 ON 16 MAY 2005  
FILE 'REGISTRY' ENTERED AT 07:56:18 ON 16 MAY 2005  
COPYRIGHT (C) 2005 American Chemical Society (ACS)

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COST IN U.S. DOLLARS          SINCE FILE      TOTAL
                               ENTRY      SESSION
FULL ESTIMATED COST          0.86      4.32
```

# STN Columbus

=>

L5 SCREEN CREATED

=>

L6 STRUCTURE UPLOADED

=>

L7 QUE L6 AND L5

=> s sam 17

SAMPLE SEARCH INITIATED 07:57:07 FILE 'REGISTRY'

SAMPLE SCREEN SEARCH COMPLETED - 1586 TO ITERATE

63.1% PROCESSED 1000 ITERATIONS  
INCOMPLETE SEARCH (SYSTEM LIMIT EXCEEDED)  
SEARCH TIME: 00.00.01

1 ANSWERS

FULL FILE PROJECTIONS: ONLINE \*\*COMPLETE\*\*  
BATCH \*\*COMPLETE\*\*

PROJECTED ITERATIONS: 29331 TO 34109

PROJECTED ANSWERS: 1 TO 106

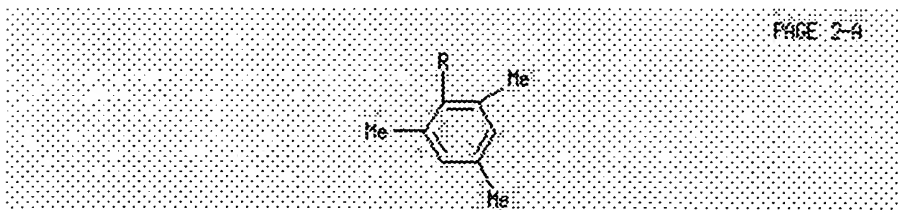
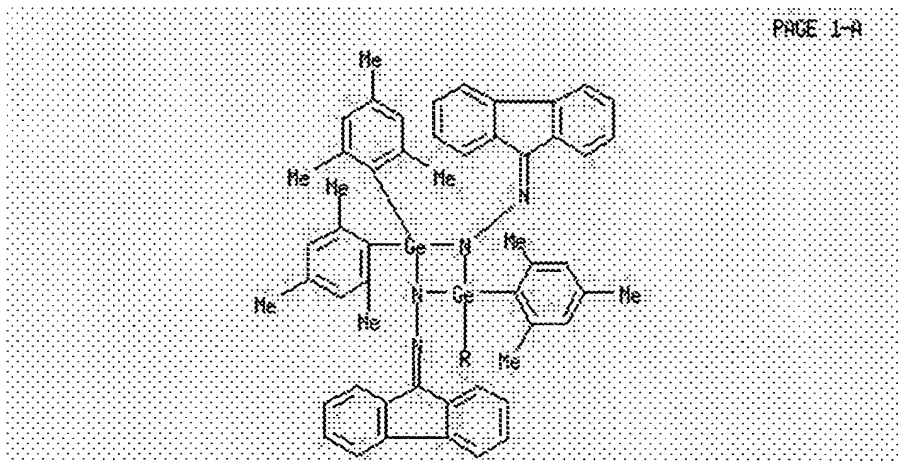
L8 1 SEA SSS SAM L6 AND L5

=> d scan

L8 1 ANSWERS REGISTRY COPYRIGHT 2005 ACS on STN

IN 1,3,2,4-Diazadigermetidine-1,3-diamine, N,N'-di-9H-fluoren-9-ylidene-  
2,2,4,4-tetrakis(2,4,6-trimethylphenyl)-, cis- (9CI)

MF C62 H60 Ge2 N4



# STN Columbus

ALL ANSWERS HAVE BEEN SCANNED

=> s sss full l7

FULL SEARCH INITIATED 07:58:18 FILE 'REGISTRY'

FULL SCREEN SEARCH COMPLETED - 32469 TO ITERATE

100.0% PROCESSED 32469 ITERATIONS

21 ANSWERS

SEARCH TIME: 00.00.01

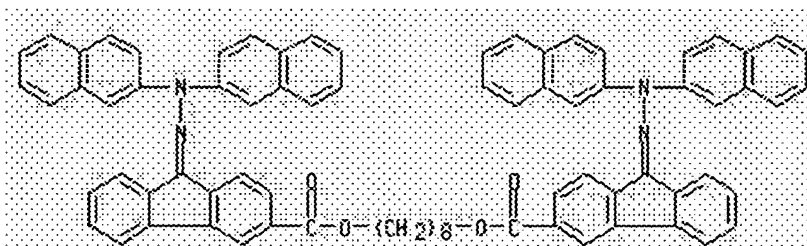
L9 21 SEA SSS FUL L6 AND L5

=> d scan

L9 21 ANSWERS REGISTRY COPYRIGHT 2005 ACS on STN

IN 9H-Fluorene-3-carboxylic acid, 9-(di-2-naphthalenylhydrazono)-,  
1,8-octanediyl ester (9CI)

MF C76 H58 N4 O4



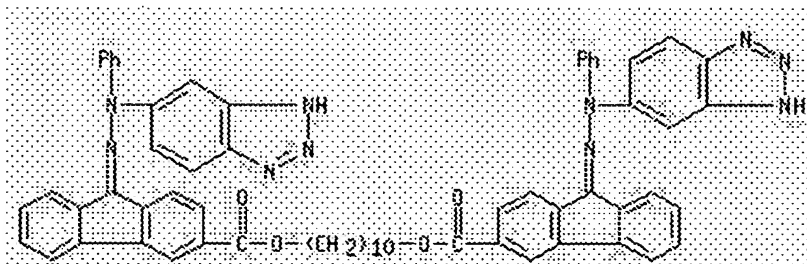
\*\*PROPERTY DATA AVAILABLE IN THE 'PROP' FORMAT\*\*

HOW MANY MORE ANSWERS DO YOU WISH TO SCAN? (1).

L9 21 ANSWERS REGISTRY COPYRIGHT 2005 ACS on STN

IN 9H-Fluorene-3-carboxylic acid, 9-(1H-benzotriazol-5-ylphenylhydrazono)-,  
1,10-decanediyl ester (9CI)

MF C62 H52 N10 O4



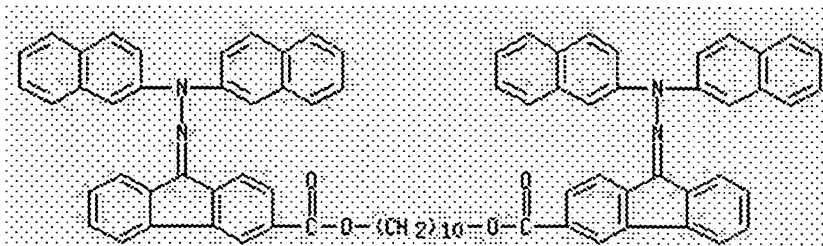
\*\*PROPERTY DATA AVAILABLE IN THE 'PROP' FORMAT\*\*

HOW MANY MORE ANSWERS DO YOU WISH TO SCAN? (1).

L9 21 ANSWERS REGISTRY COPYRIGHT 2005 ACS on STN

# STN Columbus

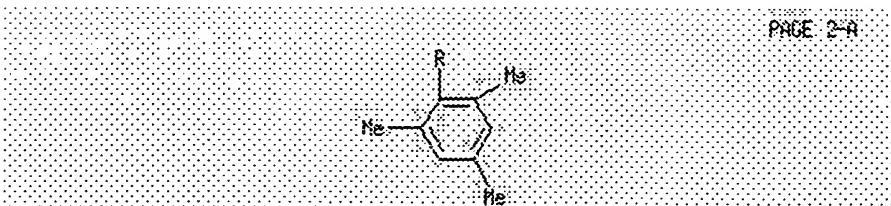
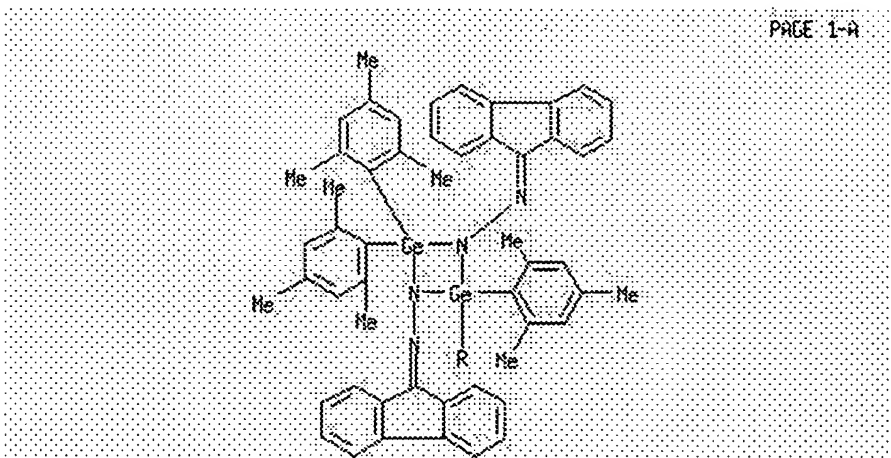
IN 9H-Fluorene-3-carboxylic acid, 9-(di-2-naphthalenylhydrazono)-,  
1,10-decanediyl ester (9CI)  
MF C78 H62 N4 O4



\*\*PROPERTY DATA AVAILABLE IN THE 'PROP' FORMAT\*\*

HOW MANY MORE ANSWERS DO YOU WISH TO SCAN? (1).

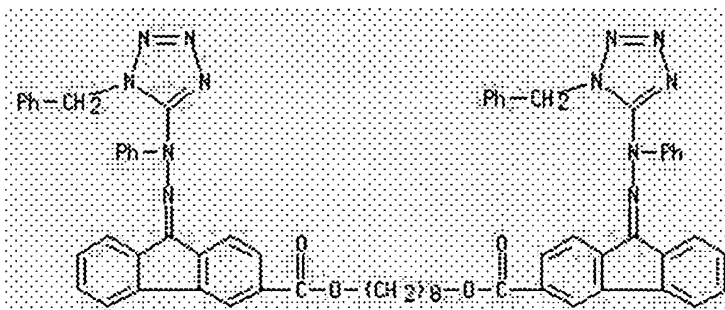
L9 21 ANSWERS REGISTRY COPYRIGHT 2005 ACS on STN  
IN 1,3,2,4-Diazadigermetidine-1,3-diamine, N,N'-di-9H-fluoren-9-ylidene-  
2,2,4,4-tetrakis(2,4,6-trimethylphenyl)-, cis- (9CI)  
MF C62 H60 Ge2 N4



HOW MANY MORE ANSWERS DO YOU WISH TO SCAN? (1).

# STN Columbus

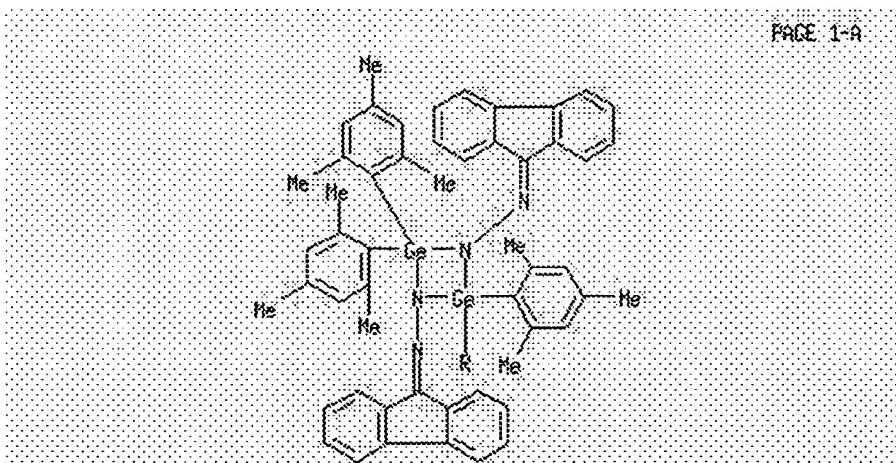
L9 21 ANSWERS REGISTRY COPYRIGHT 2005 ACS on STN  
 IN 9H-Fluorene-3-carboxylic acid, 9-[phenyl[1-(phenylmethyl)-1H-tetrazol-5-yl]hydrazono]-, 1,8-octanediyl ester (9CI)  
 MF C64 H54 N12 O4

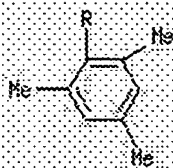


HOW MANY MORE ANSWERS DO YOU WISH TO SCAN? (1).

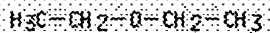
L9 21 ANSWERS REGISTRY COPYRIGHT 2005 ACS on STN  
 IN 1,3,2,4-Diazadigermetidine-1,3-diamine, N,N'-di-9H-fluoren-9-ylidene-2,2,4,4-tetrakis(2,4,6-trimethylphenyl)-, trans-, compd. with 1,1'-oxybis[ethane] (9CI)  
 MF C62 H60 Ge2 N4 . x C4 H10 O

CM 1





CM 2

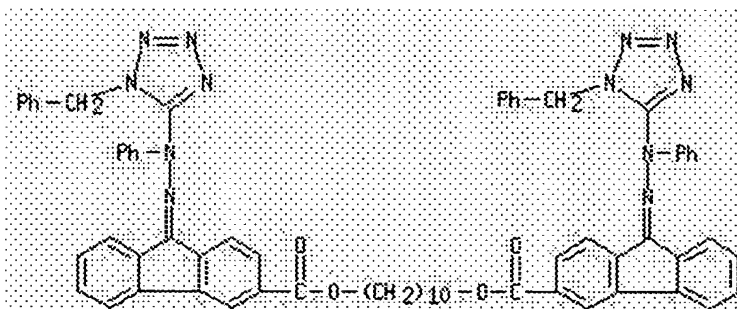


HOW MANY MORE ANSWERS DO YOU WISH TO SCAN? (1).

L9 21 ANSWERS REGISTRY COPYRIGHT 2005 ACS on STN

IN 9H-Fluorene-3-carboxylic acid, 9-[phenyl[1-(phenylmethyl)-1H-tetrazol-5-yl]hydrazono]-, 1,10-decanediyl ester (9CI)

MF C66 H58 N12 O4



HOW MANY MORE ANSWERS DO YOU WISH TO SCAN? (1).

L9 21 ANSWERS REGISTRY COPYRIGHT 2005 ACS on STN

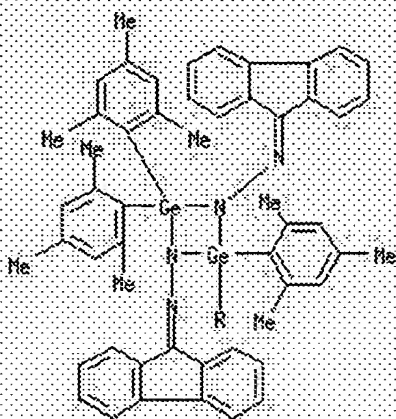
IN 1,3,2,4-Diazadigermetidine-1,3-diamine, N,N'-di-9H-fluoren-9-ylidene-2,2,4,4-tetrakis(2,4,6-trimethylphenyl)-, trans- (9CI)

MF C62 H60 Ge2 N4

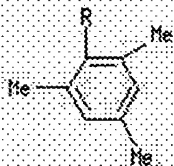
CI COM



PAGE 1-A

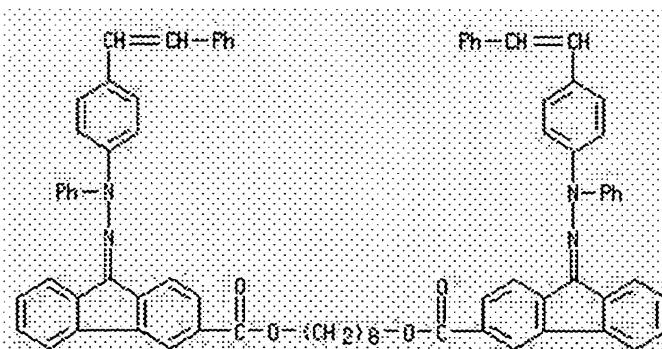


PAGE 2-A



HOW MANY MORE ANSWERS DO YOU WISH TO SCAN? (1) .

L9 21 ANSWERS REGISTRY COPYRIGHT 2005 ACS on STN  
 IN 9H-Fluorene-3-carboxylic acid, 9-[phenyl[4-(2-phenylethenyl)phenyl]hydrazono]-, 1,8-octanediyl ester (9CI)  
 MF C76 H62 N4 O4

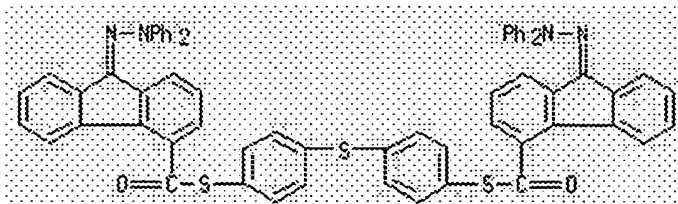


\*\*PROPERTY DATA AVAILABLE IN THE 'PROP' FORMAT\*\*

HOW MANY MORE ANSWERS DO YOU WISH TO SCAN? (1) .

# STN Columbus

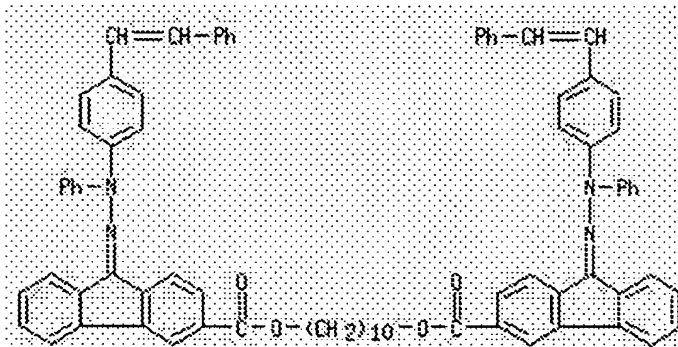
L9 21 ANSWERS REGISTRY COPYRIGHT 2005 ACS on STN  
 IN INDEX NAME NOT YET ASSIGNED  
 MF C64 H42 N4 O2 S3



\*\*PROPERTY DATA AVAILABLE IN THE 'PROP' FORMAT\*\*

HOW MANY MORE ANSWERS DO YOU WISH TO SCAN? (1).

L9 21 ANSWERS REGISTRY COPYRIGHT 2005 ACS on STN  
 IN 9H-Fluorene-3-carboxylic acid, 9-[phenyl[4-(2-phenylethenyl)phenyl]hydrazono]-, 1,10-decanediyl ester (9CI)  
 MF C78 H66 N4 O4

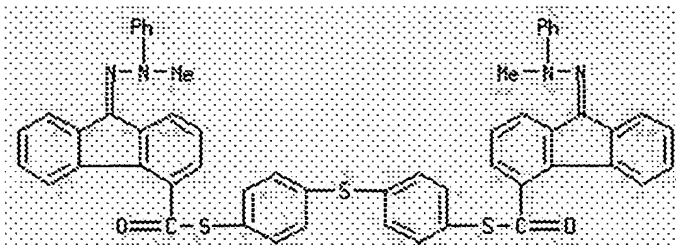


\*\*PROPERTY DATA AVAILABLE IN THE 'PROP' FORMAT\*\*

HOW MANY MORE ANSWERS DO YOU WISH TO SCAN? (1).

L9 21 ANSWERS REGISTRY COPYRIGHT 2005 ACS on STN  
 IN INDEX NAME NOT YET ASSIGNED  
 MF C54 H38 N4 O2 S3

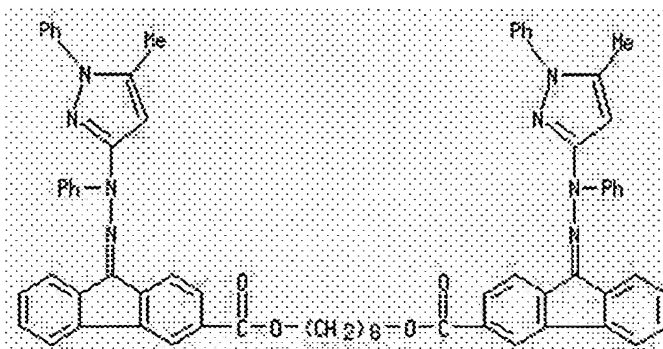
# STN Columbus



\*\*PROPERTY DATA AVAILABLE IN THE 'PROP' FORMAT\*\*

HOW MANY MORE ANSWERS DO YOU WISH TO SCAN? (1).

L9 21 ANSWERS REGISTRY COPYRIGHT 2005 ACS on STN  
 IN 9H-Fluorene-3-carboxylic acid, 9-[(5-methyl-1-phenyl-1H-pyrazol-3-yl)phenylhydrazono]-, 1,8-octanediyl ester (9CI)  
 MF C68 H58 N8 O4

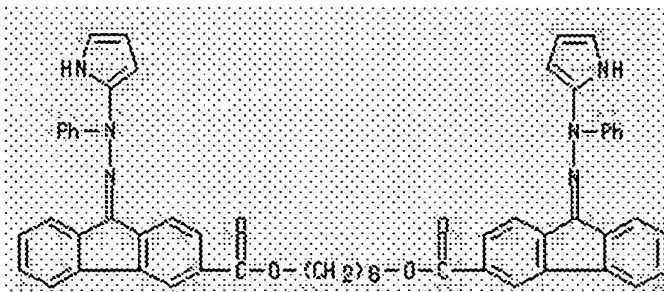


\*\*PROPERTY DATA AVAILABLE IN THE 'PROP' FORMAT\*\*

HOW MANY MORE ANSWERS DO YOU WISH TO SCAN? (1).

L9 21 ANSWERS REGISTRY COPYRIGHT 2005 ACS on STN  
 IN 9H-Fluorene-3-carboxylic acid, 9-(phenyl-1H-pyrrol-2-ylhydrazono)-, 1,8-octanediyl ester (9CI)  
 MF C56 H48 N6 O4

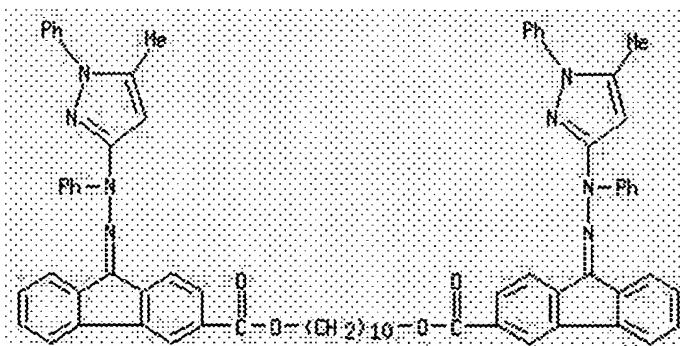
STN Columbus



\*\*PROPERTY DATA AVAILABLE IN THE 'PROP' FORMAT\*\*

HOW MANY MORE ANSWERS DO YOU WISH TO SCAN? (1).

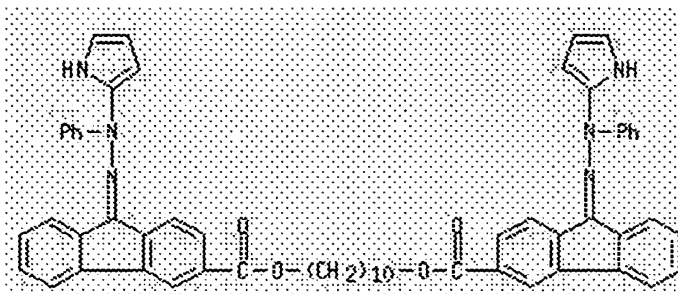
L9 21 ANSWERS REGISTRY COPYRIGHT 2005 ACS on STN  
 IN 9H-Fluorene-3-carboxylic acid, 9-[(5-methyl-1-phenyl-1H-pyrazol-3-yl)phenylhydrazono]-, 1,10-decanediyl ester (9CI)  
 MF C70 H62 N8 O4



\*\*PROPERTY DATA AVAILABLE IN THE 'PROP' FORMAT\*\*

HOW MANY MORE ANSWERS DO YOU WISH TO SCAN? (1).

L9 21 ANSWERS REGISTRY COPYRIGHT 2005 ACS on STN  
 IN 9H-Fluorene-3-carboxylic acid, 9-(phenyl-1H-pyrrol-2-ylhydrazono)-, 1,10-decanediyl ester (9CI)  
 MF C58 H52 N6 O4



\*\*PROPERTY DATA AVAILABLE IN THE 'PROP' FORMAT\*\*

HOW MANY MORE ANSWERS DO YOU WISH TO SCAN? (1)end

=> d his

(FILE 'HOME' ENTERED AT 07:46:03 ON 16 MAY 2005)

FILE 'REGISTRY' ENTERED AT 07:46:09 ON 16 MAY 2005

L1 SCREEN 1995  
L2 STRUCTURE UPLOADED  
L3 QUE L2 AND L1  
L4 0 S SAM L3

FILE 'STNGUIDE' ENTERED AT 07:50:26 ON 16 MAY 2005

FILE 'REGISTRY' ENTERED AT 07:52:59 ON 16 MAY 2005

L5 SCREEN 1995  
L6 STRUCTURE UPLOADED  
L7 QUE L6 AND L5  
L8 1 S SAM L7  
L9 21 S SSS FULL L7

=> s l9 not ge/els

63745 GE/ELS

L10 18 L9 NOT GE/ELS

=> fil ca; s l10

COST IN U.S. DOLLARS	SINCE FILE ENTRY	TOTAL SESSION
FULL ESTIMATED COST	169.37	172.83

FILE 'CA' ENTERED AT 08:00:14 ON 16 MAY 2005

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FILE COVERS 1907 - 12 May 2005 VOL 142 ISS 21

# STN Columbus

FILE LAST UPDATED: 12 May 2005 (20050512/ED)

New CAS Information Use Policies, enter HELP USAGETERMS for details.

This file contains CAS Registry Numbers for easy and accurate substance identification.

L11 2 L10

=> d fbib 1-2

L11 ANSWER 1 OF 2 CA COPYRIGHT 2005 ACS on STN

## Full Text

AN 142:363705 CA  
 TI Organophotoreceptor with charge transport material having fluorenone hydrazone groups  
 IN Jubran, Nusrallah; Tokarski, Zbigniew; Law, Kam W.  
 PA USA  
 SO U.S. Pat. Appl. Publ., 34 pp.  
 CODEN: USXXCO  
 DT Patent  
 LA English  
 FAN.CNT 1

PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
US 2005069794	A1	20050331	US 2003-671172	20030925
EP 1522899	A2	20050413	EP 2004-255825	20040924
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JP 2005099811	A2	20050414	JP 2004-280261	20040927
			US 2003-671172	A 20030925
			US 2003-671172	A 20030925

L11 ANSWER 2 OF 2 CA COPYRIGHT 2005 ACS on STN

## Full Text

AN 139:171235 CA  
 TI Electrophotographic organo-photoreceptors with novel charge transport materials  
 IN Law, Kam W.; Jubran, Nusrallah; Tokarski, Zbigniew; Katritzky, Alan R.; Jain, Ritu; Maimait, Rexiat  
 PA Samsung Electronics Co., Ltd., S. Korea  
 SO Eur. Pat. Appl., 1 p.  
 CODEN: EPXXDW  
 DT Patent  
 LA English  
 FAN.CNT 1

PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
EP 1335250	A1	20030813	EP 2003-250767	20030206
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			US 2002-355018P	P 20020208
			US 2002-355019P	P 20020208
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			US 2002-355060P	P 20020208
			US 2002-355066P	P 20020208
			US 2002-355073P	P 20020208
			US 2002-355079P	P 20020208
			US 2002-355080P	P 20020208
			US 2002-355228P	P 20020208

# STN Columbus

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			US 2002-355047P	P 20020208
			US 2002-355060P	P 20020208
			US 2002-355066P	P 20020208
			US 2002-355073P	P 20020208
			US 2002-355079P	P 20020208
			US 2002-355080P	P 20020208
			US 2002-355228P	P 20020208

OS MARPAT 139:171235

RE.CNT 5 THERE ARE 5 CITED REFERENCES AVAILABLE FOR THIS RECORD  
ALL CITATIONS AVAILABLE IN THE RE FORMAT

=> fil uspatfull; s l11

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FILE COVERS 1971 TO PATENT PUBLICATION DATE: 12 May 2005 (20050512/PD)  
FILE LAST UPDATED: 12 May 2005 (20050512/ED)  
HIGHEST GRANTED PATENT NUMBER: US6892391  
HIGHEST APPLICATION PUBLICATION NUMBER: US2005102725  
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REVISED CLASS FIELDS (/NCL) LAST RELOADED: Feb 2005  
USPTO MANUAL OF CLASSIFICATIONS THESAURUS ISSUE DATE: Feb 2005

## STN Columbus

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>>> USPAT2 is now available.  USPATFULL contains full text of the  <<<
>>> original, i.e., the earliest published granted patents or  <<<
>>> applications.  USPAT2 contains full text of the latest US  <<<
>>> publications, starting in 2001, for the inventions covered in  <<<
>>> USPATFULL.  A USPATFULL record contains not only the original  <<<
>>> published document but also a list of any subsequent  <<<
>>> publications.  The publication number, patent kind code, and  <<<
>>> publication date for all the US publications for an invention  <<<
>>> are displayed in the PI (Patent Information) field of USPATFULL  <<<
>>> records and may be searched in standard search fields, e.g., /PN, <<<
>>> /PK, etc.  <<<
```

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>>> USPATFULL and USPAT2 can be accessed and searched together  <<<
>>> through the new cluster USPATALL.  Type FILE USPATALL to  <<<
>>> enter this cluster.  <<<
>>>  <<<
>>> Use USPATALL when searching terms such as patent assignees,  <<<
>>> classifications, or claims, that may potentially change from  <<<
>>> the earliest to the latest publication.  <<<
```

This file contains CAS Registry Numbers for easy and accurate  
substance identification.

L12            2 L10

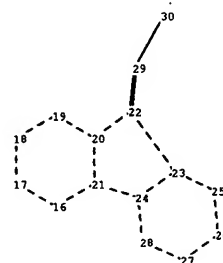
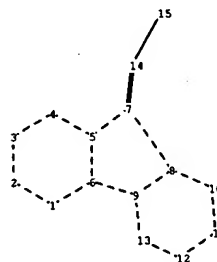
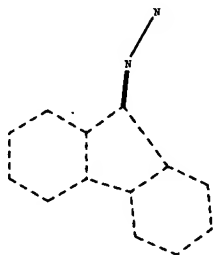
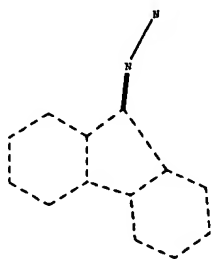
=> d pn 1-2

L12 ANSWER 1 OF 2 USPATFULL on STN  
PI     US 2005069794        A1     20050331

L12 ANSWER 2 OF 2 USPATFULL on STN  
PI     US 2003198880        A1     20031023

=>





chain nodes :

14 29

ring nodes :

1 2 3 4 5 6 7 8 9 10 11 12 13 16 17 18 19 20 21 22 23 24 25 26 27  
28

ring/chain nodes :

15 30

chain bonds :

7-14 14-15 22-29 29-30

ring bonds :

1-2 1-6 2-3 3-4 4-5 5-6 5-7 6-9 7-8 8-9 8-10 9-13 10-11 11-12 12-13 16-17  
16-21 17-18 18-19 19-20 20-21 20-22 21-24 22-23 23-24 23-25 24-28 25-26 26-27  
27-28

exact/norm bonds :

1-2 1-6 2-3 3-4 4-5 5-6 5-7 6-9 7-8 7-14 8-9 8-10 9-13 10-11 11-12 12-13  
14-15 16-17 16-21 17-18 18-19 19-20 20-21 20-22 21-24 22-23 22-29 23-24 23-25  
24-28 25-26 26-27 27-28 29-30

Hydrogen count :

15:= exact 0 30:= exact 0

Connectivity :

15:3 E exact RC ring/chain 30:3 E exact RC ring/chain

Match level :

1:Atom 2:Atom 3:Atom 4:Atom 5:Atom 6:Atom 7:Atom 8:Atom 9:Atom 10:Atom 11:Atom  
12:Atom 13:Atom 14:CLASS 15:CLASS 16:Atom 17:Atom 18:Atom 19:Atom 20:Atom  
21:Atom 22:Atom 23:Atom 24:Atom 25:Atom 26:Atom 27:Atom 28:Atom 29:CLASS  
30:CLASS